

SCHOOL OF ELECTRICAL ENGINEERING
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Final Report
for NASA Grant
NAGW-1581

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This grant was a transitional award associated with the development of the NRA system at NASA. This grant was used to continue support for several graduate students doing their Ph.D. research in ionospheric topics. Furthermore, since this particular grant was only for one year it is difficult to detail its accomplishments in a clear manner.

The students who benefitted from this funding are Glenn Berg, Dave Knudsen and Charles Swenson. Dr. Knudsen used data from several rocket flights in his August 1990 thesis entitled "Alfven Waves and Static Fields in Magnetosphere/Ionosphere Coupling: In-Situ Measurements and a Numerical Model". Two papers have been accepted for publication from his work:

1. Quasi-dc Poynting flux measurements on a satellite: A diagnostic tool for space research, M.C. Kelley, D.J. Knudsen, and J.F. Vickrey, J. Geophys. Res., in press, 1990.
2. Distinguishing Alfvén waves from quasi-static field structures associated with discrete aurora: Sounding rocket and HILAT satellite measurements, D. Knudsen, M.C. Kelley, and J. Vickrey, Geophys. Res. Lett., in press, 1990.

The other two students are progressing well and should both finish in 1991.

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